

# Updated Operations Plan (November 2020)

Applicant: Sage Koenig

APNs: 108-011-026-000 & 221-171-029-000

Application Numbers: 11295 & 11277

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## 1 FARM AND SITE DESCRIPTION

### 1.1 FARM SITE OVERVIEW

Mr. Sage Koenig is the sole proprietor of Mattole Farms, which operates on neighboring parcels, APNs: 108-011-026-000 & 221-171-029-000. The cultivation areas on these two parcels operate as one farm and a lot merger has been requested. This application is for operations occurring on both parcels, and are identified as application numbers 11295 and 11277 with Humboldt County.

Application 11277 is for existing cultivation, currently consisting of 15,900 (15,900) SQ FT of outdoor cultivation. Of this total, eleven thousand one hundred (11,100) SQ FT is grown in hoop houses, using light deprivation, and achieves two harvests per year. The remaining four thousand eight hundred (4,800) SQ FT is full season outdoor cultivation, and is proposed to move into hoop houses for light deprivation as well.

Application 11295 is for existing cultivation consisting of three thousand three hundred (3300) SQ FT of outdoor full season cultivation, and nine thousand six hundred (9600) SQ FT of mixed light cannabis cultivation (which achieves two harvests per year). All currently operational cultivation areas are identified on the Plot Plan provided by Omsberg & Preston.

This Operations Plan will first describe the currently operational cultivation, and then outline a proposal for final consolidation and relocation. For information on the pre-existing cultivation on these parcels, please see the CAV reports.

In 2016, Mr. Koenig decommissioned and remediated two thousand three hundred ten (2,310) SQ FT of existing cultivation. This application proposes additional consolidation and relocation of cultivation areas.

## 2 DESCRIPTION OF WATER SOURCE, STORAGE, IRRIGATION PLAN, AND PROJECTED WATER USAGE.

## **2.1 WATER USE AND STORAGE**

The parcel has two (2) wells with documented water rights. Both wells are clearly identified on the plot plan prepared by Omsberg & Preston. Water for all cannabis cultivation occurring in association with both applications 11295 and 11277 is provided by Well Number 1. Well 1 is a permitted agricultural well, with documented water rights, including a Small Irrigation Use Registration. Well Number 2 provides the domestic water for both properties.

Mr. Koenig has developed 40,000 gallons of irrigation water storage that is filled in the winter and used exclusively for agriculture during the summer forbearance period. There are also an additional 5000 gallons stored for fire suppression. Mr. Koenig has recently finalized his Lake and Streambed Alteration Agreement with Department of Fish and Wildlife which calls for a rainwater catchment pond to be built on APN: 221-171-029. This will provide 800,000 gallons of irrigation storage. Pond has been engineered and permits for this project have been prepared and are ready for submission. Mr. Koenig has also obtained his Notice of Applicability from the State Water Resources Control Board (SWRCB).

## **2.2 IRRIGATION PLAN**

Mr. Koenig uses drip irrigation with in-line emitters, run on a timer daily, or as needed based on weather conditions and plant needs. In addition, the cannabis is hand watered once a week with a blend of compost tea. The propagation areas are also hand watered.

## **2.3 PROJECTED WATER USE**

Mr. Koenig anticipates using approximately six hundred ninety-six thousand eight hundred (696,800) gallons of water for the cultivation associated with applications 11277 and 11295. See water usage report (Attachment A) for details.

# **3 DESCRIPTION OF SITE DRAINAGE, INCLUDING RUNOFF AND EROSION CONTROL MEASURES.**

## **3.1 SITE DRAINAGE**

The slope of the cultivation areas is less than 2%, on natural flats, with more than 100 ft. between any cultivation area and the nearest drainage or water course.

### 3.2 EROSION CONTROL MEASURES

Mr. Koenig has taken multiple measures to reduce the risk of erosion on the property, including working with the California Department of Fish and Wildlife to upgrade stream crossings, and move existing cultivation out of Streamside Management Areas. Additionally, Mr. Koenig utilizes a combination of out sloping and water bars to minimize the water and sediment flows related to the building sites, flats, and driveway.

## 4 MEASURES TAKEN TO ENSURE PROTECTION OF THE WATERSHED AND NEARBY HABITAT.

### 4.1 PROTECTION OF WATERSHED AND HABITAT

All cultivation areas are located more than one hundred (100) FT away from any water course. Mr. Koenig has preserved forest lands as buffer zones for habitat and wind control. Additionally, Mr. Koenig has worked with multiple agencies and consultants to ensure that the farming, cultivation sites, structures, roads, and activities conducted on these properties are within the carrying capacity of the land. As such Mr. Koenig has taken the steps, including but not limited to:

- Finalizing and working on the conditions of the Lake and Streambed Alteration Agreement,
- Conducting a Wetlands Delineation Study,
- Participating in the Regional Water Quality Control Boards' Pilot Ag Discharge Program, and
- Completing the transition to the State Water Quality Control Boards' Ag Discharge Program.

## 5 DESCRIPTION OF CULTIVATION & PROPAGATION ACTIVITIES.

### 5.1 CURRENTLY OPERATIONAL CULTIVATION

Mr. Koenig has applied for, and is currently cultivating nineteen thousand two hundred (19,200) SQ FT of outdoor cannabis, plus nine thousand six hundred (9,600) SQ FT of mixed light cannabis on these parcels, in association with applications 11295 and 11277.

### **5.1.1 AREA 1: 2,400 SQ FT OF OUTDOOR CULTIVATION**

Mr. Koenig is seeking permission to relocate the currently operational two thousand four hundred (2,400) SQ FT of outdoor cultivation from (E) 40' x 60' OD CULTIVATION AREA 1 to (E) (2) 80' x 20' HH5-6. Please see the Section 5.4 Final Consolidation & Relocation Plan (p. 11) for details.

### **5.1.2 HH 1 - 4: 6,400 SQ FT OF MIXED LIGHT CULTIVATION**

HH 1 – 4 are currently used to cultivate six thousand four hundred (6,400) SQ FT of mixed light cannabis and are identified as (E) (4) 20'x80' HOOPHOUSES built in 2012. Each hoop house is equipped with supplemental lighting at a rate of 1/3 Watts a SQ FT.

HH 1 & 2 are also used for the propagation of immature plants associated with applications 11295 and 11277. Please see Section 5.3 Currently Operational Propagation (beginning on p. 10), and Section 9 Schedule of Cultivation Activities (beginning on p. 17) for more details about the propagation activities of HH 1 & 2.

### **5.1.3 AREA 2: 900 SQ FT OF OUTDOOR CULTIVATION**

Area 2 is identified on the plot plan as (E) 30' x 30' OUTDOOR CULTIVATION AREA #2, and consists of nine hundred (900) SQ FT of outdoor cultivation under a very aged wood frame canopy, that has been covered with various types of greenhouse material.

Mr. Koenig is seeking permission to relocate eight hundred (800) SQ FT of this nine hundred (900) SQ FT of existing outdoor cultivation to (E) (2) 20'X80' HOOPHOUSES (HH5-6) (2002). Mr. Koenig respectfully requests to relocate the remaining one hundred (100) SQ FT to the neighboring parcel where it can be planted in Prime Ag Soil. The receiving area is identified on the Plot Plan as 20' x 85' OD PHH 4. See note 18 on the Plot Plan, and Section 5.4.4 for more details.

### **5.1.4 HH 5 & 6: 3,200 SQ FT OF MIXED LIGHT CULTIVATION**

HH 5 & 6 are used to cultivate three thousand two hundred (3,200) SQ FT of mixed light cannabis. HH 5 & 6 are identified on the Plot Plan as (E) (2) 20'X80' HOOPHOUSES (HH5-6) (2002), see DETAIL 'B'. Mr. Koenig is seeking permission to relocate and consolidate the mixed light cultivation in these hoops and replace with

outdoor (ML1) square footage from Area 1 and Area 2. Please see the Section 5.4 Final Consolidation & Relocation Plan (p. 11), for details.

### **5.1.5 HH 7 – 12: 11,100 SQ FT OF OUTDOOR (LIGHT DEP) CULTIVATION**

In 2016, after applying for a cannabis cultivation permit from Humboldt County, Mr. Koenig started a consolidation, relocation, and remediation program on this property. The consolidation, relocation, and remediation program acted to establish a more permanent and clearly defined location for cannabis cultivation. Mr. Koenig's consolidation, relocation and remediation program is detailed below, and resulted in the building of HH 7 – 12.

Quick facts about HH 7 – 12:

- No supplemental lighting is used.
- Light deprivation techniques are applied, allowing these hoop houses to achieve two harvests per year.
- Immature plants are planted directly into the prime ag soil.

For information about pre-existing cultivation, please see the CAV reports.

## **5.2 PRE-2016 EXISTING PROPAGATION**

As local land use requirements and state regulations have been implemented, Mr. Koenig has had to adjust which structures and areas are used for propagation. It is important to note that the propagation areas discussed below provide immature plants to cultivation applications 11295 & 11277.

### **5.2.1 EXISTING PROPAGATION FOR OVERWINTERING GENETICS & CLONE PRODUCTION: 1,152 SQ FT OF INDOOR PROPAGATION SPACE**

The propagation that took place in the area currently identified on the Plot Plan as (E) 24'X48' PROCESSING & PACKAGING BUILDING (2013) was always intended to be temporary. In 2017 Mr. Koenig discontinued the use of this building for overwintering genetics and clone production. Prior to the 2017 conversion, this building was equipped with a mother room on one half, and a clone room on the other. Note the doors at each end of the building.

Because this building was equipped with 1,000 Watt HID lighting, it was a suitable environment for the overwintering of genetics and clone production. As such, it was used for propagation from November – June, and processing,

primarily drying and storage, from June – November. Please see Section 9 Schedule of Cultivation Activities (beginning on p. 17) for operational details.

Mr. Koenig is respectfully requesting that the proposed decommission of this one thousand one hundred fifty-two (1,152) SQ FT propagation area, equipped with HID lighting, be considered when reviewing Section 5.4 Final Consolidation & Relocation Plan (p. 11).

## **5.2.2 EXISTING GROW-UP & HARDENING-OFF AREAS: 3,200 SQ FT OF PROPAGATION AREA**

HH 1 & 2 have traditionally been used for propagation from March – June, and are identified on the Plot Plan as (E) (4) 20'x80' HOOPHOUSES. HH 1 & 2 were equipped with adjustable Govita lighting that provided between 600 and 1200 Watts of High Intensity Discharge (HID) lighting per fixture. HH 1 & 2 were also equipped with heaters.

The combination of the HID lighting and the heaters, allowed Mr. Koenig to use these hoop houses to grow-up very freshly rooted clones without the young plants suffering shock from the short daylight hours, or damping-off due to the cold weather and overcast days common to the late winter and early spring.

As freshly rooted clones were transferred from the Genetic Overwintering & Clone Production building, trays of clones were potted-up to 4", 1 gallon, and 2 gallon pots before being planted or moved to the (E) 24'X30' PROPAGATION GREENHOUSE (IMMATURE PLANTS ONLY) (2001), for staging and hardening-off.

HH 1 & 2 served as the primary propagation area for application numbers 11295 and 11277. Please see Section 9 Schedule of Cultivation Activities (beginning on p. 17) for additional information.

## **5.3 CURRENTLY OPERATIONAL PROPAGATION**

### **5.3.1 HH 1 & 2: 3,200 SQ FT OF PROPAGATION & CULTIVATION SPACE.**

In 2018, when Mr. Koenig applied for a mixed light tier 1 license, the state calculated the Govita lights in HH 1 & 2 at 1,200 Watts per fixture which exceeded the 6 Watts a SQ FT lighting limit placed on mixed light tier 1 licensees. As such, Mr. Koenig chose to replace the lighting fixtures with the same low wattage supplemental lighting as in HH 3 & 4, which provides 1/3 Watt per square foot of supplemental lighting.

This lighting change eliminated the ability to use these HH 1 & 2 in the late winter and early spring months. As such these hoop houses can no longer be used to receive freshly rooted clones as early in the season. This has forced Mr. Koenig to purchase plants, are already well rooted in 4" pots, in April and May.

Additionally, state regulations prohibit Mr. Koenig from providing immature plants from HH 1 & 2 to both outdoor and mixed light licenses. This means HH 1 & 2 can only legally supply immature plant material to HH 1 – 12, forcing Mr. Koenig to convert cultivation (E ) 24'x30' PROPAGATION GREENHOUSE (IMMATURE PLANTS ONLY) to an outdoor propagation area that only produces immature plants for the outdoor licensed areas of application number 11295 and 11277.

Now that this 24'x30 greenhouse has been designated as an outdoor propagation facility it can no longer be used as an overflow and hardening off area for the mixed light licensed areas as referenced in Section 5.2.2 Existing Grow-Up & Hardening-Off Areas - 3,200 SQ FT of Propagation Area. HH 1 & 2 currently serve as propagation for the mixed light license between the months of March to June, and then both are planted for flower production.

Due to the challenges associated with propagation as regulations have solidified, Mr. Koenig is respectfully requesting that the County allow him the ability to establish a new greenhouse for the purposes of mixed light propagation ONLY. Please see Section 5.4.1 Propagation Modification & Relocation of Area 1: 2,400 SQ FT Outdoor Cultivation, for details regarding Mr. Koenig's proposal.

All electricity used on this parcel is provided by PG&E. There is no generator use associated with commercial cannabis activities on this parcel.

## **5.4 FINAL CONSOLIDATION & RELOCATION PLAN**

### **5.4.1 PROPAGATION MODIFICATION & RELOCATION OF OD AREA 1: 2,400 SQ FT OUTDOOR CULTIVATION**

Area 1 consists of a fenced garden area commonly referred to as 'The Veggie Garden -this is identified as 40'x60' OD CULTIVATION AREA 1 TO BE RELOCATED TO EHH 5-6.

This area consists of approximately two thousand four hundred (2,400) SQ FT of tillable garden area plus a large border of fallow area (between the garden the fence), that acts as an IPM buffer. Mr. Koenig currently cultivates two thousand four hundred (2,400) SQ FT of outdoor cannabis in this location and is seeking

permission to relocate this outdoor cultivation to (E) (2) 20'X80' HOOPHOUSES (HH5-6) (2002).

Pre-2016 Mr. Koenig had developed and utilized four thousand three hundred and fifty-two (4,352) SQ FT of High Intensity Discharge (HID) lighting equipped propagation area. As mentioned earlier in this Operations Plan, these facilities were crucial to overwintering genetics and providing clones for the cultivation operations associated with applications 11295 and 11277. Mr. Koenig is seeking permission to develop (1) three thousand twenty-four (3,024) SQ FT greenhouse in the location identified as (P) 42'X72' PROPOGATION GREENHOUSE, once the current two thousand four hundred (2,400) SQ FT of existing outdoor cultivation has been relocated, and the mixed light cultivation is consolidated.

Mr. Koenig will seek a building permit for the new propagation greenhouse, which will be constructed using rigid polycarbonate materials, include supplemental lighting, and have heat to establish an environment suitable to grow-up early clones. Under this proposal, the new greenhouse would replace the propagation functions of HH 1 & 2, reducing the amount of time HH 1 & 2 are in use on an annual basis and allowing for a May planting as opposed to early or mid-June. Please see Section 9 Schedule of Cultivation Activities (p. 17) for a detailed cultivation and propagation schedule.

#### **5.4.2 RELOCATION OF OD AREA 2: 900 SQ FT OF OUTDOOR CULTIVATION**

This area is identified on the Plot Plan as (E) 30'X30' OD CULTIVATION TO BE RELOCATED (SEE NOTE 18). This outdoor cultivation area is located under a rotting wooden canopy structure that has been covered with various types of greenhouse material throughout the years and needs to be removed from the property. Mr. Koenig is seeking permission to relocate eight hundred (800) SQ FT of this nine hundred (900) SQ FT of existing outdoor cultivation to (E) (2) 20'X80' HOOPHOUSES (HH5-6) (2002). Mr. Koenig respectfully requests to relocate the remaining one hundred (100) SQ FT to the neighboring parcel where it can be planted in Prime Ag Soil. The receiving area is identified on the Plot Plan as 20' x 85' OD PHH 4. See note 18 on the Plot Plan, and the Operations Plan for Application 11277 for more details.

### **5.4.3 CONSOLIDATION OF MIXED LIGHT CULTIVATION TO 9600 SF ML PHH 1**

In order to promote efficiency of resources and maximize productivity, Mr. Koenig seeks to consolidate all nine thousand six hundred (9600) SQ FT of mixed light cultivation associated with application 11295 (consisting of EHH 1-4 and EHH 5-6) to a proposed new 9600 SQ FT structure, shown on the Plot Plan as 9600 S.F. ML PHH1. This would allow Mr. Koenig to maximize the efficiency of his mixed light cultivation as well as to separate out the propagation activities from the cultivation space used for flowering.

### **5.4.4 (P) OD HOOP HOUSES 2-4: PROPOSAL TO RELOCATE 4800 SQ FT OF EXISTING OUTDOOR CULTIVATION AWAY FROM SMA**

Upon completing the Lake and Streambed Alteration Agreement associated with application numbers 11295 and 11277, it was brought to Mr. Koenig's attention that a portion of the cultivation area identified as (E) 60'X80' OUTDOOR CULTIVATION AREA TO BE RELOCATED TO OD PHH 2-4 (SEE NOTE 18) on the Plot Plan, is slightly within the SMA for the Mattole River.

To remedy the proximity to the SMA, Mr. Koenig is seeking permission to relocate this four thousand eight hundred (4800) SQ FT of outdoor cultivation, combined with the one hundred (100) SQ FT from application 11295 mentioned above, into three new hoop houses, marked (2) 20' x 80' OD PHH 2-3, and 20' x 85 ODD PHH 4.

Quick facts about OD PHH 2 - 4:

- No supplemental lighting is used.
- Light deprivation techniques are applied, allowing these hoop houses to achieve two harvests per year.
- Immature plants are planted directly into the prime ag soil.

## **6 DESCRIPTION OF PROCESSING ACTIVITIES.**

Mr. Koenig conducts post-harvest activities including drying, curing, wholesale packaging, and finished cannabis storage on APN: 108-011-026. These existing and proposed post-harvest facilities serve the cultivation Areas and Hoop Houses associated with application numbers 11295 & 11277. Although most of the associated trimming will be done by an off-site processor, Mr. Koenig would also like to have the ability to do trimming on his property, in case satisfactory off-site processing is unavailable at the necessary times. To that end, Mr. Koenig

proposes to convert an open sided carport to a (P) 20' x 25' COMMERCIAL PROCESSING BUILDING, labelled as such on the Plot Plan.

## 6.1 DRYING & CURING

Pre-2016, Mr. Koenig had utilized the (E) 1328 S.F. AG STORAGE (PRE 1998), see DETAIL 'A' on the Plot Plan, to provide overflow drying space for application numbers 11295 and 11277. This area has since been discontinued, and converted to worker housing. Mr. Koenig has also traditionally used the building identified on the plot plan as (E) 24'X48' PROCESSING & PACKAGING BUILDING (2003) for the drying, curing, wholesale packaging, and storage of cannabis produced by application numbers 11295 and 11277. The use of both buildings for the drying, curing, wholesale packaging, and the storage of cannabis, provided ample space for these post-harvest activities association with applications 11295 and 11277.

However, in 2017 Mr. Koenig decommissioned the use of the E) 1328 S.F. AG STORAGE (PRE 1998), see DETAIL 'A', for the drying and curing cannabis. At the same time, the building labeled as (E) 20'X20' HARVEST STORAGE BUILDING (2002), was upgraded to provide a secure location for the storage of cured cannabis and wholesale packaged cannabis.

While this rearrangement has helped to provide additional drying and curing space for the cultivation, it is still not adequate. To properly manage the post-harvest needs of the cultivation activities associated with applications 11295 and 11277, Mr. Koenig is requesting permission to build a new drying and curing building. This new building is identified on the Plot Plan as (P) 24'X48' COMMERCIAL PROCESSING BUILDING & ADA RESTROOM. Mr. Koenig also requests permission to renovate an open sided carport into a new processing building, labelled (P) 20' x 25' COMMERCIAL PROCESSING BUILDING on the Plot Plan.

Currently however, the mature plant material is harvested, inspected for quality control, placed in food grade and sanitized bins, labeled, and transported from the cultivation area(s) to one of the temporary mother and propagation areas referenced above. Drying and curing activities generally take place in either the (E) 24'x48' PROCESSING AND PACKAGING BUILDING (2003) and/or the common area of the 1,036 SF Barn (See Detail 'B' of the Plot Plan). All drying activity and information, including daily temperature and humidity, is logged on a daily flow sheet. Once the plant material is adequately dry, it is labeled and placed into food grade containers, awaiting further processing.

## 6.2 TRIMMING

Although most of the trimming associated with Applications 11277 and 11295 will be done by an off-site processor, Mr. Koenig would also like to have the ability to do trimming on his property, in case satisfactory off-site processing is unavailable at the necessary times. This will take place in the renovated carport that is labelled (P) 20' x 25' COMMERCIAL PROCESSING BUILDING on the Plot Plan.

## 7 PROTOCOLS FOR STORING AGRICULTURAL PRODUCTS, RECORDKEEPING, SANITATION, AND WORKPLACE SAFETY.

### 7.1 STORAGE OF AGRICULTURAL PRODUCTS

Farm tools, and small equipment such as the rototiller, dep tarps, hand tools, trays, pots, irrigation supplies, etc. are stored in the (E) 8'x20' STORAGE CONTAINERS, and in the (E) 455 S.F. AG STORAGE building, see DETAIL 'B', located near the access gate to (E) HOOP HOUSES 5 & 6. Please refer to the Plot Plan for additional details.

Mr. Koenig only utilizes amendments and fertilizers that are appropriate for crops produced for human consumption. Centralized first aid kits, eyewash stations and fire extinguishers are located throughout the property.

The amendments, fertilizers, compost, nutrients, medium, etc. used in association with the cultivation areas identified as the (E) 40'x60' OUTDOOR CULTIVATION AREA #1 TO BE RELOCATED TO EHH 5-6; (SEE NOTE 18) and the (E) (4) 20'X80' HOOPHOUSES (HH1 – 4) (2012) TO BE REMOVED, are stored in either the (E) 12'x16' HORSE SHELTER (PRE 1998) and/or the 192 SF PESTICIDE / AG CHEMICAL SHED. There is a centralized MSDS station within the 192 SF PESTICIDE / AG CHEMICAL SHED, which is the closest of these two structures to the 40'x60' outdoor garden and HH 1 – 4. The Plot Plan provided with this application shows these buildings in detail.

The amendments, fertilizers, compost, nutrients, medium, etc. used in association with the cultivation areas identified as (E) (2) 20'X80' HOOPHOUSES (HH5-6) (2002), and (E) 30'x30' OD CULTIVATION AREA #2 TO BE RELOCATED (SEE NOTE 18) are stored in the 455 SF AG STORAGE building located near the

entrance into this fenced area. There is a centralized MSDS station within the 455 SF AG STORAGE building. Please see Detail 'B' on p. 2 of the plot plan.

Farm tools, and small equipment such as the rototiller, dep tarps, hand tools, trays, pots, irrigation supplies, etc. are stored in the (E) 8'x20' STORAGE CONTAINERS, and in the (E) 455 S.F. AG STORAGE BUILDING, see DETAIL 'B', located near the access gate to (E) HOOP HOUSES 5 & 6. Please refer to the Plot Plan for additional details.

The amendments, fertilizers, compost, nutrients, medium, etc. used in association with the cultivation areas identified in application number 11277 are also stored in the (E) 455 S.F. AG STORAGE BUILDING. This building also includes a central MSDS station.

All pesticide products used in association with application number 11277 are stored in the (E) 455 S.F. AG STORAGE (2002) building or the 8' x 20' STORAGE CONTAINERS

## **7.2 RECORD KEEPING**

Mr. Koenig keeps detailed records of all products applied to each batch of cannabis produced. Record keeping is kept in a chart at the site. This information includes detailed descriptions of the amendment, nutrient, compost tea and pesticides used. The staff person responsible for the application is required to initial each application as well as provide the ratio of product applied and the reason for each application. Temperature, pest management, and daily activities are also documented on a daily basis.

## **7.3 SANITATION PRACTICES**

Mr. Koenig has implemented sanitation checklists to ensure the regular cleaning and sanitation of the bathroom, common areas, and processing areas. All processing areas are swept regularly to remove cannabis debris immediately and in regular intervals. All processing areas are cleaned at the end of each day and includes the thorough sanitation of all tools, trays, containers, tables, surfaces and floors. The bathroom is cleaned daily as well.

## **7.4 WORKPLACE SAFETY STANDARDS**

Mr. Koenig maintains compliance with all the safety standards and have posted OSHA compliant workplace safety posters in employee common areas. Additionally, employees have access to all written Standard Operating Procedures which include emergency phone numbers, first responders, fire safety and

evacuation routes, the address of the farm, and a signature page that verifies each staff on site has reviewed the farms Standard Operating Procedures local resource information, rights and responsibilities are posted.

## 8 DESCRIPTION OF STAFFING & SECURITY.

### 8.1 STAFFING

Mr. Koenig, operates the cultivation areas associated with application numbers 11295 & 11277 as one working farm. As such, Mr. Koenig employs four (4) full-time staff persons. One of the full-time staff persons lives on APN: 108-011-026-000, in the structure labeled as (E) 1,220 S.F. ONE (1) BEDROOM WORKER HOUSING (PRE 1998). The additional full-time staff persons are housed in the 1328 S.F. THREE (3) BEDROOM WORKER HOUSING. Filtered drinking water is available in both employee housing structures. There are at least 4 on-site parking places in front of the 1328 S.F. THREE (3) BEDROOM WORKER HOUSING building and two more near the 1,220 S.F. ONE (1) BEDROOM WORKER HOUSING (PRE 1998).

There is a bathroom with a permitted septic system in the structure labeled as (E) 1,220 S.F. ONE (1) BEDROOM WORKER HOUSING (PRE 1998). There are also plans drawn and a permit application already prepared for a larger bathhouse to be installed as part of the (P) 24' x 48' COMMERCIAL PROCESSING BUILDING & ADA RESTROOM.

Although road use seems to have decreased since full-time employees are now all living on site rather than commuting, Mr. Koenig maintains his road periodically with his own equipment.

### 8.2 SECURITY

APN: 108-011-026 is located on a private road, behind a locked security gate. Each cultivation area is fully fenced with lockable gates at all ingress/egress points. The main gate to the property is kept locked at all times. The access gates to each cultivation areas are kept locked at all times when staff person(s) are not present.

## 9 SCHEDULE OF CULTIVATION OF ACTIVITIES

## **9.1 JANUARY**

### **9.1.1 CURRENT SCHEDULE**

- 9.1.1.1 DORMANT – NO CULTIVATION OR PROPAGATION ACITIVITIES
- 9.1.1.2 WATER - BEGIN FILLING 40,000-GALLON WATER STORAGE SYSTEM
- 9.1.1.3 START CLEANING UP SITES BY MOWING TALL GRASSES AROUND SITES DOWN.

## **9.2 FEBRUARY**

### **9.2.1 CURRENT SCHEDULE**

- 9.2.1.1 IMMATURE PLANTS (ML) – OBTAIN CLONES AND/OR ROOTED IMMATURE PLANTS IN 4" POTS FROM LICENSED NURSERIES, AND USE (E) 12' x 16' PROPAGATION SHED (IMMATURE PLANTS ONLY), and HH1 FOR GROW-UP & HARDENING OFF .
- 9.2.1.2 WATER - CONTINUE FILLING 40,000-GALLON WATER STORAGE SYSTEM
- 9.2.1.3 CONDUCT SOIL TESTING AND AMEND BEDS ACCORDING TO TEST RESULTS. PREPARE LIGHT DEPRIVATION HOOP HOUSES FOR FIRST PLANTING.

## **9.3 MARCH**

### **9.3.1 CURRENT SCHEDULE**

- 9.3.1.1 IMMATURE PLANTS (ML)– OBTAIN CLONES AND/OR ROOTED IMMATURE PLANTS IN 4" POTS FROM LICENSED NURSERIES, AND USE HH1 FOR GROW-UP & HARDENING OFF.
- 9.3.1.2 WATER - FINISH FILLING 40,000-GALLON WATER STORAGE SYSTEM
- 9.3.1.3 PLANTING PREP - PREPARE HH 1 - 6 FOR PLANTING, INCLUDING SOIL TESTING AND AMENDING BEDS ACCORDING TO TEST RESULTS.
- 9.3.1.4 REPAIR INFRASTRUCTURE AS NECESSARY

## **9.4 APRIL**

### **9.4.1 CURRENT SCHEDULE**

- 9.4.1.1 IMMATURE PLANTS (ML) – OBTAIN CLONES AND/OR ROOTED IMMATURE PLANTS IN 4" POTS FROM LICENSED NURSERIES, AND USE HH1 FOR GROW-UP & HARDENING OFF

- 9.4.1.2 WATER - FINISH FILLING 49,000-GALLON WATER STORAGE SYSTEM
- 9.4.1.3 PLANTING PREP – FINISH PREPARING HH 2-6 FOR PLANTING, INCLUDING SOIL TESTING AND AMENDING BEDS ACCORDING TO TEST RESULTS
- 9.4.1.4 REPAIR INFRASTRUCTURE AS NECESSARY
- 9.4.1.5 FIRST ROUND OF PLANTS IS TRANSPLANTED INTO HH 7, HH8, HH9, HH10, HH11 & HH12, AS WELL AS PHH 2-4

## 9.5 MAY

### 9.5.1 CURRENT SCHEDULE

- 9.5.1.1 IMMATURE PLANTS (ML) – OBTAIN CLONES AND/OR ROOTED IMMATURE PLANTS IN 4” POTS AND USE HH1 FOR GROW-UP & HARDENING OFF.  
IMMATURE PLANTS (OD) – ROOTED IMMATURE PLANTS IN 4” POTS ARE PURCHASED FROM A LICENSED NURSERY AND ARE GROWN-UP IN THE (E) 24’X30’ PROPAGATION GREENHOUSE (IMMATURE PLANTS ONLY) (2001). THE 24’X30’ GREENHOUSE IS USED AS THE GROW-UP AND HARDENING OFF LOCATION FOR ALL OUTDOOR CULTIVATION AREAS ASSOCIATED WITH APPS: 11295 & 11277
- 9.5.1.2 PLANTING – PLANT HH 3, 4, 5, & 6 (APPS 11295).
- 9.5.1.3 PLANTING PREP – IF WEATHER PERMITS, PREPARE OUTDOOR AREAS FOR PLANTING, INCLUDING SOIL TESTING AND AMENDING PER TEST RESULTS.
- 9.5.1.4 REPAIR INFRASTRUCTURE AS NECESSARY

## 9.6 JUNE

### 9.6.1 CURRENT SCHEDULE

- 9.6.1.1 IMMATURE PLANTS (ML) – OBTAIN CLONES AND/OR ROOTED IMMATURE PLANTS IN 4” POTS AND USE HH1 FOR GROW-UP & HARDENING OFF.  
  
IMMATURE PLANTS (OD) - ROOTED IMMATURE PLANTS IN 4” POTS ARE PURCHASED FROM A LICENSED NURSERY AND ARE GROWN-UP IN THE (E) 24’X30’ PROPAGATION GREENHOUSE (IMMATURE PLANTS ONLY) (2001).
- 9.6.1.2 PLANTING – FINISH PLANTING HH 3, 4, 5, & 6 (APPS 11295).
- 9.6.1.3 PLANTING PREP – FINISH ANY OUTSTANDING PREPARATION IN THE

OUTDOOR AREAS, INCLUDING SOIL TESTING AND AMENDING PER TEST RESULTS.

## **9.7 JULY**

### **9.7.1 CURRENT SCHEDULE**

9.7.1.1 IMMATURE PLANTS (ML) – CONTINUE THE GROW-UP OF IMMATURE PLANTS FOR THE SECOND PLANTING OF THE HOOP HOUSES ASSOCIATED WITH APPS 11295 & 11277. HH 2 IS USED FOR THIS ROUND OF GROW-UPS.

9.7.1.2 HARVESTING – HH 3 – 6 (APPS 11295) AND HH 7 – 12 (APPS 11277)

9.7.1.3 PROCESSING – DRYING & CURING ARE ONGOING. DRYING CONTINUES IN (E) 24'X48' PROCESSING & PACKAGING BUILDING (2003). AS PLANT MATERIAL DRIES IT IS TRANSFERRED TO THE (E) 20'X20' HARVEST STORAGE BUILDING (2003).

9.7.1.4 PLANTING – PLANT OUTDOOR AREAS ON APPS 11295 & 11277. FINISH REPLANTING HH 3 – 6 (APPS 11295) AND HH 7 – 12 (APPS 11277).

## **9.8 AUGUST**

### **9.8.1 CURRENT SCHEDULE**

9.8.1.1 PLANTING – FINISH REMAINING TASKS ASSOCIATED WITH THE SECOND PLANTING. HH2 IS CLEARED OF NURSERY STOCK AND REPLANTED.

9.8.1.2 PROCESSING - DRYING, CURING AND PROCESSING ACTIVITIES ASSOCIATED WITH THE FIRST HARVEST ARE ONGOING.

## **9.9 SEPTEMBER**

### **9.9.1 CURRENT SCHEDULE**

9.9.1.1 HARVEST - BEGINS FOR SOME VARIETALS OF THE OUTDOOR PLANTS AND HH 1.

9.9.1.2 PROCESSING - DRYING AND CURING CONTINUES FROM THE FIRST HARVEST OF HH 3, 4, 5 & 6 (APPS 11295), AND HH 7 – 12 (APPS 11277).

## **9.10 OCTOBER**

### **9.10.1 CURRENT SCHEDULE**

9.10.1.1 HARVEST – SECOND HARVEST FROM HH 2 – 6 (APPS 11295) & HH 7 – 12 (APPS 11277). OUTDOOR CULTIVATION AREAS ARE

HARVESTED. TOWARD THE END OF THE MONTH, HH 1 IS ALSO HARVESTED.

9.10.1.2 PROCESSING & CURING – DRYING AND CURING CONTINUES. FULLY CURED FLOWER IS PACKAGED FOR TRANSFER TO A LICENSED PROCESSOR FOR TRIMMING AND FINAL FORM PACKAGING.

9.10.1.3 WINTERIZATION - OUTDOOR CULTIVATION AREAS ARE CLEANED UP AND PLANTED WITH A COVER CROP. THE HOOP HOUSES ARE CLEANED UP AS THEY ARE HARVESTED. SOME ARE PLANTED WITH COVER CROP AND OTHERS ARE PLANTED WITH WINTER VEGETABLES.

## **9.11 NOVEMBER**

### **9.11.1 CURRENT SCHEDULE**

9.11.1.1 WINTERIZING - BRING IN LIGHT DEPRIVATION TARPS, SOLAR FANS, REMOVE BATTERY OPERATED TIMERS, AND SHUT DOWN WATER SYSTEM. THE REMAINING HOOP HOUSES, NOT USED FOR WINTER VEGETABLE PRODUCTION, AND OUTDOOR CULTIVATION AREAS ARE PLANTED WITH COVER CROP AND WINTER MULCH IS APPLIED.

## **9.12 DECEMBER**

### **9.12.1 CURRENT SCHEDULE**

9.12.1.1 PROCESSING – WRAP UP THE DRYING AND CURING ACTIVITIES

9.12.1.2 WINTERIZING - DEEP CLEAN ALL DRYING AND CURING AREAS.

9.12.1.3 NO CULTIVATION ACTIVITIES

## 10 ATTACHMENT A

### 10.1 WELL 1

Provides irrigation water to all indoor and outdoor cultivation associated with application number 1195, and application number 11277.

January	February	March	April	May	June	July	August	September	October	November	December	Total
0	0	14940	48270	89150	98410	122540	13880 0	11345 0	58800	12500	0	696860